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U. S. Department of Agriculture - Forest Service CENTRAL STATES FOREST EXPERIMENT STATION

Technical Note 42.

VOLUME TABLE 1/

November 1, 1941

for SHORTLEAF PINE (Pimus echinata)

Jackson and Gallia Counties, Ohio

| Merchantable Stem to a Variable Top Diameter | | | | | INTERNATI | ONAL Rule (4" | Kerf) |
|--|----------------------------------|--------|--------|--------|-----------|---------------|------------|
| Diameter | Gross volume of stem | | | | | Top diib. | Basis |
| breast high | in 12.3-foot logs to merchantabl | | | | | at | in |
| outside bark | 1 | 2 | 3 | 4 | 5 | merchantable | trees |
| (inches) | log | logs | logs | logs | logs | limit | |
| | Bd.ft. | Bd.ft. | Bd.ft. | Bd.ft. | Bd.ft. | Inches | Number |
| 9 | 22 | 41 | 58 | | | 6 48 | 25 |
| 10 | 28 | 50 | 72 | 93 | | 7.0 | <i></i> |
| 11 | 34 | 62 | 88 | 114 | | 7:4 | } 33 |
| 12 | 41 | 74 | 106 | 136 | | 7.8 - | 5 00 |
| 13 | 48 | 88 | 126 | 162 | 196 | 8.2 | } 8 |
| 14 | 56 | 103 | 147 | 189 | 230 | 8:8 | ر ک |
| 15 | 66 | 119 | 170 | 219 | 266 | 9.4 | } 5 |
| 16 | | 137 | 195 | 251 | 305 | 10.1 | <i>S</i> " |
| 17 | | | 222 | 285 | 346 | 11.0 | } 1 |
| 18 | | | 251 | 322 | 391 | 11.9 | <i>}</i> |
| | | | | | | | |
| Basis in | | | | | | | |
| trees | 12 | 17 | 39 | 3 | 1 | | 72 |
| number | | | | | | | |

I/ Trees measured by J. W. Girard in 2-inch diameter classes and in 10- to 16-foot log lengths and scaled as such. Table prepared in 1941 by the equation method. Coefficient of multiple correlation (R) is .975. Band of the standard error of estimate 89.5 to 111.7 percent. Block shows limits of basic data. Statistical assistance furnished by personnel of WPA Official Project No. 65-2-42-296.

The total estimated gross volume of single shortleaf pine trees or stands should be corrected for cull (including defect, sweep, crook, shake, etc.) by a percentage reduction. This percentage should be determined locally through observing the cull elements and through experience of sawmill operators as regards losses from rot, shake, etc., in utilizing this species.

